

Comparisons of Job Characteristics

Focus Occupation: [Electrical and Electronics Repairers, Commercial and Industrial Equipment \(49-2094\)](#)

Associated Occupation: [Industrial Machinery Mechanics \(49-9041\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 82

Focus Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)
Associated Occupation: Industrial Machinery Mechanics (49-9041)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	20.1	16.4	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	13.0	11.7	<	Expanded education and/or training may be required
Design	5.2	11.5	9.6	<	Expanded education and/or training may be required
Building and Construction	4.0	9.7	6.3	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 89

Focus Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)
Associated Occupation: Industrial Machinery Mechanics (49-9041)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Repairing	3.4	15.6	13.3	<	A higher skill level may be required
Equipment Maintenance	3.5	14.6	11.1	<<	Extensive development of skills in this area may be required
Operation Monitoring	6.6	14.2	12.6	<	A higher skill level may be required
Troubleshooting	4.5	13.6	12.0	<	A higher skill level may be required
Quality Control Analysis	5.9	12.3	13.3	0	Current skill level may be sufficient
Operation and Control	5.4	11.6	9.7	<	A higher skill level may be required
Equipment Selection	3.3	9.8	10.5	0	Current skill level may be sufficient
Installation	1.7	6.4	9.3	>>	Skill level is likely more than sufficient

Technology Design	2.6	5.2	6.3	>	Skill level is likely sufficient
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The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 75			
Focus Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094) Associated Occupation: Industrial Machinery Mechanics (49-9041)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Reaction Time	4.8	13.9	8.7	<<	Extensive improvement in abilities may be required
Control Precision	6.6	12.9	9.8	<<	Extensive improvement in abilities may be required
Manual Dexterity	6.5	12.6	11.2	<	Some improvement in abilities may be required
Hearing Sensitivity	5.6	12.1	9.3	<<	Extensive improvement in abilities may be required
Finger Dexterity	7.6	11.9	12.9	0	Current ability level may be sufficient
Multilimb Coordination	6.0	11.5	10.0	<	Some improvement in abilities may be required
Auditory Attention	5.9	11.2	8.7	<	Some improvement in abilities may be required
Visual Color Discrimination	6.4	10.6	10.6	0	Current ability level may be sufficient
Speed of Limb Movement	3.2	7.7	5.6	<<	Extensive improvement in abilities may be required
Wrist-Finger Speed	3.2	7.3	5.7	<	Some improvement in abilities may be required
Sound Localization	2.2	6.5	4.7	<<	Extensive improvement in abilities may be required
Glare Sensitivity	2.6	6.2	5.1	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 87
Focus Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094) Associated Occupation: Industrial Machinery Mechanics (49-9041)		
Work Activities	Exclusivity of Activity	
Analyze operation of malfunctioning electrical or electronic equipment	68	
Calibrate or adjust electronic equipment or instruments to specification	67	
Determine installation, service, or repair needed	58	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Install electrical fixtures or components	71	

Install electronic equipment, components, or systems	62
Install electronic power, communication, control, or security equipment or systems	76
Install or replace meters, regulators, or related measuring or control devices	66
Install/connect electrical equipment to power circuit	57
Maintain or repair industrial or related equipment/machinery	39
Perform safety inspections in industrial, manufacturing or repair setting	32
Read blueprints	10
Read schematics	34
Read technical drawings	7
Read work order, instructions, formulas, or processing charts	9
Repair computer controlled manufacturing systems	95
Repair or adjust measuring or control devices	71
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Replace electronic components	63
Solder electrical or electronic connections or components	55
Test electrical/electronic wiring, equipment, systems or fixtures	54
Test electronic or electrical circuit connections	66
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use electrical or electronic test devices or equipment	40
Use electronic calibration devices	68
Use hand or power tools	2
Use soldering equipment	44

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 77

Focus Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)
Associated Occupation: Industrial Machinery Mechanics (49-9041)

Tools and Technologies	Exclusivity
Aerial lifts	13
Business function specific software	1
Compressors	9
Computer printers	2
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Data management and query software	1
Electrical measuring and testing equipment	7
Forming tools	2
Holding and clamping tools	3
Indicating and recording instruments	2
Industry specific software	1

Integrated circuits	18
Ladders and scaffolding	6
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Measuring and layout tools	3
Metal bending and forming machinery	17
Pneumatic tools	8
Power tools	2
Prying and bending tools	10
Rough and finishing tools	5
Soldering and brazing and welding machinery and supplies	6
Tool attachments and accessories	12
Transportation related equipment and instruments	29
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.